REPORT

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DEVELOPMENT OF MOUNT ALU

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A. E. MIRAMS, Esq., F.S.L. F.R.S.L.,
Consulting Surveyor to the Governm: " . Rombay



DICHI GOVERNMENT DENTRAL PRESS 1924



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REPORT ON DEVELOPMENT OF MOUNT ARII

BY A E MIRAMS, Esq , FST FRST, Consulting Surveyor to the Covernment of Bombay

This report is for various reasons not as comprehensive as I should have liked but a great deal of research work has been devoted to the report. However it is not us full as I should have liked, owing to a tunot of encounstances over which I have had no control

- 2. The funds at the disposal of the Rapputana Agency were tery restreted but this particular fact has not materially affected the treat i not of the subject as regards the particular matters with which the r port itself is concerned. The obsence of funds has prevented me from presenting the report with printed matter and plans as I should like to have done. A report in manuscript, when dealing with a variety of subjects as comprehended by a Development Scheme, is always unsatisfactor.
 - 3 Generally my remarks have been divided into five heads --
 - (1) Traffic Communications
 - (2) Building sites
 - (3) Improvement of bazaar area
 - (4) Brief notes on water-supply
 - (5) Summery

(A)

- 4 Mount Abu is a hill station situated 4 000 feet above the sea level It is frequented by officials and readents of the Rajnatura States, and to a certain extent by others who find their normal occupation in Almedybad and other parts of Guzerat and to a still less extent on comparatively rare occasion by people hiving as far away as Bombry It is the Headquarters of the Rajnatura Agency and a holiday resort of miny of the Rajnatura Procession.
- 5 In conformation it may be said to partake somewhat of the nature of a semi plateau broken up by a series of precipitous hills, with the result that there is a compartively small proportion of fand naturally available as building sites. Roughly, the hill may be said to have an all over area in so far as that part, which is said to be habitable is concurred, of 2 000 acros.
- 6 A detuled description of the hill is contained in the Gravetteer and it is neither necessary nor describle to recapitulate or to attempt to enlarge upon such description in a report of this nature. Suffice it to say that except during the rainy season which extends from the

maddle of June to the middle of October, the full is admirably suited for residential purposes throughout the year. It goes without saying that from a commercial point of view part from the benefits conferred by its excellent climate, it is negligible but it is a magnificent hing station with peculiar and unrivelled scenary. Furthermore, it is not difficult of access as it can be reached by motor from Abu Road steton, which is only if miles others. The hill is provided with an excellent club known as the Rapputana Club, quite a good oriclet ground and a first class pole ground, and there is noom for improved hold accommodate on. The configuration of the hill does not lend stell to the provision of such roads as would be suitable for vehicular traffic, and the power that be would be vise not to attempt to provide for each traffic apart from the familities given to motors running to and from various parts of the hill on the struvial and departure of visitors.

7 When treating of truffic improvements in this report, I have supported the proposals to construct two new main roads, which I refer to in the report as the "Pilgrim Road and the Four mile Chukkar Road ' for want of a better known description. Both these roads will of course be suitable for the usual vehicular traffic as well as for motor traffic travelling not more than an average of 15 to 18 miles per hour and it will be a matter for administration as to whether these roads together with the main Abu Road should be allowed to be so used Only those roads within the realms of practical politics have been st ggested, and generally speaking the cost of such roads will be reflected 11 the increased value of the lands sold. This remark applies with particular emphasis to branch roads giving access to new building sites In the case of the Pilgram Road and the Four mile Chukkar Road, which are really arterial, not much could be expected from sales of the a joining properties and it is only fair and proper that the public in general should contribute towards the cost of their construction

8 The problem I set myself was to find with a certain amount of accuracy lands which might be made available for the erection of bungalows and the provision of access thereto. These points are dealt with at length in the body of the report under their respective heads

9 Another matter of considerable importance to Abu is the improvent in the city of the existing because and the development of lands octenmins therewith. There can be no two opinions as to the importance of this subject, and the photographs accompanying this report will give some idea of lands near the becaute which can, as I shall show be readily acveloped with a two fold object of improving the sites from a samitary point of new, and the provision of additional building sites for the existing residents in the because are as a well as for shopping purposes.

10 Inally, it is not a serious matter and the sistement I attach to this report will show that the whole of the improvements can be carried out with a net cost of less than Re 10 000 I have made a particular reference to the provision of new latrines as I am most emphatically against the continuation of the existing type of kirchastructure which is indecors inconvenient and approaches the insandary.

- 11 A note on the finances of the water-supply scheme already under consideration, which appears in the report is self explanatory, and it may be sufficient here to state that under the scheme it is estimated by me that water could be supplied on the basis of cost at Rs 1-8-9 per 1000 gallons The Public Works Department arrived as a figure of Re 0.11 0 whereas the average cost by bhistees has been stated by the P W D to be Rs 6 per 1,000 gallons for a regular apply for the whole year These figures speak for themselves and are a relutation of the claim made by certain people that mamuch as the majority of bungalows already have their own wells, it is not necessary to provide for a municipal water supply, but the conveniences attached to a regular pipe supply as against the supply from wells is so obvious that apart from the saving involved it is unnecessary to argue the suestion.
 - 12 There is one other small point which might be referred to with advantage viz, the proposal to remove the incinerator and the con tractor's yard from their existing position flanking the main Abu Road It is a depressing and objectionable feature, which at once strikes the visitor, on his approach to Mount Abu, to be confronted with the inci rerator used for night soil and rubbish and the unsightly contractor s vard I propose that the momerator should be to the north of site No 40 m the valley of Nadi Easy access to the road could be made to the vest of site No 40 breaking off from Abu Road at mile No 1/3, which is about the same place the Pilgrim Road takes off. This would entail a road for as much as 1,200 feet in length, and the incinerator will then be at a distance of 16 miles from the station as against a mile at Tresent It will then be constructed at a height of 3,730 feet and some 150 feet below the level of site No 40 and I do not think, it can be sig gested that even this latter site would be seriously affected. The low lands adjoining the above site might with advantage be used for purposes of night soil trenches and the resulting manure disposed of to cultivators
 - 13 Passing along on his way to Abu the visitor skirts the area which is in the immediate vicinity, which I call as the bazaar area."
 - 14 Accompanying the report, are the full plans showing the improvements proposed. The Juilding acts proposed acceptance of 375 acres being made available. It might here be remarked that the Executive Linguiser had estimated 578 acres for building sites and it is not clear how this figure is arrived at From the foregoing runaries it is apparent that I am not in agreement with him. I have selected a further three sites with a total area of 20 acres. The report deals with the question of development of these sites in detail and the estimates thereof.
 - 15 It should be understood that the value appearing in the valuation statement of building sites is intended to represent the value of the land apart from a ground rest of Rs 20 per acre per annum which I gather it is desired to levy on all building sites, in other words the

value stated if it is desired to arrive at the fee simple value, should be increased in every case by approximately from Rs 800 to Rs 450 per acre

- 16 The conditions of lesses should include in addition to the payments of premium and ground rent provincins against closing or diverting nulls without the permission of the Municipality. The mining and mineral rights should be reserved to Government except in so far as the lesses might have the right to quarry stone or material for actual use on the site for the purpose of erecting a bungalow or develoring the land.
- 17 There is just one other point in connection with building stee which might with advantage be mentioned here is not the eventual as it, whether the sites on the NaAhi lake should or should not be developed. The Municipality has I understand resolved to withhold the disposal of these sites for the time being on the ground that water in the lake night be contaminated as the result of their user. There are only five or six sites at the most and they are very difficult of development and not likely to find ready purchasors. Apart from the contamination of the lake there is just the other port and it is not an unumportant one vir that of the aesthetic and if buildings are allowed to be creted the elevations abould be submitted to a keen entricem before construction takes place. It is possible to have an attractive and landsome turiding put up which could add to the appearance of the neighbour bood as a whole and enhance the general view of the lake on the other hand on unsughtly building might cashy be an eve sore.

TRAFFIC COMMUNICATIONS

The detailed description of the several building sites indicates that some of the sites are actually on existing roads e.g. those on the Abu Pood the High School Road the Anadra Road and the Sunase Pouri Isond and consequently very little if any expense is called for in Iroviding communication to them. Of the total of 83 sites 21 are more already to the state of the total of 83 sites 21 are more used adjacent to existing roads. The remaining 61 most be provided with suitable spinoech roads and I diverse these after guing a description of the proposed arternal or triffic roads which may be designated. The Pietre Road with the Table Called School and the proposed arternal or triffic roads which may be designated.

The Pigrim Road and the Tour Mile Chakkar Road respectively for want of a better nomenclature

I do not consider it desirable to make more than a couple of important recommendations in respect of the construction of the two main traffic roads viz (1) the Pilgram Road and (2) the Poir Mile Chaktar Road Sundry alignments here been suggested from time to time and prepared by the Directive Dogumen at Abn

The general construction of the Prigrim Road is more or less physically fixe 1 but a close examination of the proposed alignment he led me to make certain recommendations which in my opinion will result in an improvement. I refer to this road hereafter

Apart from these two main thoroughfares, there would be need to construct subsidiary roads (throughout the Report I will refer to them as "branch roads) These branch roads number in all nine They are essential for the development of building sites in the immediate proximity The total length of these branch roads is 8 110', and the estimated cost of construction is Rs 27,700 Generally. I have pro uded in my estimates for these branch roads to be 20 feet in width and carpeted with 6 inches of metalling 12 feet in width chanments have been naturally selected on the easiest possible gradients They may all be said to be suitable for vehicular traffic. In addition to the above nine branch roads it will be necessary, if access is to be given to plots 26, 27, 28 and 39, to construct three other branch roads, but I do not recommend their construction for the reason that they will have to cross a very wide nulla locally known as Nadi" (the name itself indicates the width of the nulla), and the culverting or bridging of such a nulla would be so expensive as to, in my omnion, render the construction of the rouds uneconomical. It might appear superfluous m view of these remarks to make any reference to the proposals, but the fact is that the four huilding sites are within a reasonable distance of the proposed Pilgrim Road, and will be available hereafter when all other lands are disposed of In addition to the new construction, I make sundry suggestions for improving two existing roads. I have numbered these branch roads from 1 to 9 and they are shewn on the tian in red each road having its own identification No in a green urcle on the alignment

THE PILGRIM ROAD

This roud when made will ultimately be a very important theroughlare, and its construction calls for no justification. Its user will primarily be for traffic quite unconnected with the building sites it incidentally gives access to The advantages to be conferred by its construction are so well recognised, that there is no need to dwell on them in this report. As the title indicates the road will provide for vehicular access for pigrims to the celebrated Divivara temples. It will further greatly shorten and improve the approach to the Alwar I state.

A regular project has been worked out in detail and an estimate amounting to very nearly a lakin of rupces, for improving the existing track and aligning the road has recently been submitted to the Government of India. The existing Prigrim Road starts from a point on the Abu Road adjacent to the Abu High School Road and ends near the Driwars temples. Bridged at three places in order to cross big milks, it is nevertheless just a rough track not more than 5 feet wide on an average, and usually no more than a rough footpath and only passable for pedestrial traffic.

I have carefully inspected the proposals, with which I generally agree It is however possible to reduce the cost of construction by effecting certain changes as stated below

Prima faces an appreciable saving could be effected by reducing the width of land to be acquired for the road. It is true a greater p rison of the road will pass through Government land but steads 3000 feet langth passes through private land mostly culturable and 100 width between road boundaires instead of the 80 contemplated in the Scheme would result in reducing the acquisition from 30 suces to daux 1 cares which at the average rate allowed for, of Re 600 per acre would amount to Re 4200 instead of Rs 6000 thus effecting a saving of Rs 1 8000 It need not be pounded out that the actual formation of the road should not be more than 200—the Abu Road in sort more than 210 on na verspec—and a 150 extra on either side will unless the road is m a heavy bank where the width could be locall increased be found quite antificient for future widening etc. Anything approaching 800 or 1000 (so proposed in an earlier report on the subject) is absolutely uncessasty and would be westerful in the extreme

Apart from the consideration of the several approach roads to the sates on the right and left of the new road which will be discussed leseafter I generally agree with the realignment which commences at mile No 1/2 of the mun Abu Road 930 due north of the take off of the existing Pilgrim track. This is the most stirtable point of centact for this purpose. The course of the alignment upto chanage 2 500' 1 e unto a point 450 south of the bridge towards the east of the Nilkantha Mahadev Temple near site No 25 is unobjectionable In view of the fact however that the existing bridges which are only meant for pedestrial traffic are to be replaced by new ones canable of taking a 5 ton running load it is not obligator; to restrict the alignment so as to pass over the existing bridge and a 30 move towards the west as regards the actual crossing of the nulla and a change in the further course of the alignment as far as the Torna village chainage 3 600 as shewn in plan No 853 would result in less acquisition less Leight of bank and consequently a reduced ultimate cost

With regard to the curved portion actually falling in the Torna village and the further course of alignment between changes 3 600 and s 200 or in other words letween the Torna and the Gora Chuppra v linges I suggest a radical change from the existing proposals from a practical point of view. The existing portion of the road between these two villages sweeps round the south west side of Mr Sharafud din a house and I see no necessity for the costly diversion which has been proposed through private agricultural lands towards the east of "hate nouse involving costs acquisitions and claims for severance and a heavy bank for over 800 length. It would result in a clear straight reach of road much favoured by motorists but it is not justified from an economic point of view. The existing road gradients are quite Lood between the two villages referred to and all that is necessary is to widen the road where necessary, which will not be a costly affair an view of the good ground for the greater part of this section. The curve passing through the Torns village could with advantage be moved 25 westward of the proposed alignment so as to properly link up the

two portions at its extremities and to keep within practicable grades Proceeding further ahead of the Gora Chuppra village, the existing Pilgrim Road overlaps the road going north west to the Military bar-1 tchs, for about 200' length and then suddenly sweeps down towards the north east in a nulla between two high hills and then taking a sharn tern towards north west below piller No 10 of the Cantonment limits. r ses up through broken land for about 400' and finally crosses the ridge through a saddle in the hills and emerges on the plants towards the north between the Alwar site and site Nos 2 3 and 4 situate towards the east of Dikaner House. The proposed abgrament for time portion allows of a little more fittening up of the 'S curve towards the north east of the Gora Chuppra village, if a little greater expenditure is possible If economy is urgent, I do not press the point as being essential The further course of the abgument along the side of the 'all towards the left, would necessitate the construction of a retaining wall on the down stream side almost upto the saddle (chamage 6.700) and seems to be the most practicable line to be followed. I agree with the alignment between this saddle and the ridge further north east 1 e . between change 6 700 and 7 900, although it passes through low land and would consequently require a heavy bank, as the road would then be better situated with regard to the sites on its flanks, I refer to the Alwar site on the east and site Nos 2, I and 4 on the west and Bikaner House which would also derive no inconsiderable benefit from this read The final section from chanage 7,900 to 9,516' (where it joins the Abn Orra Road), falls entirely outside the I used are; and is consequently within the Sirohi limits. I recommend that the curve near pilar No 4 should be slightly moved towards the south west, as well as the further alignment, as shewn in plan No 1. which would result in improving the curve and also reducing the bank by an appreciable amount. The total length of the road will be 1.85 miles and the cost of its construction is estimated to be rather under a likh of rupees. This total cost will be recoverable in part from plots developed by the road as building sites. Such part measured by the accruing increment is approximately Rs 36,000 (including the capitalized ground rent)

It is understood Re 20,000 is to be, or has been contributed by Bin Highness the Maharaya of Alwax and that Re. 40,000 will be received from the Jan Community

In this way practically the whole lakh will be recovered

THE FOLR MILE CHURRAR ROAD.

I think it is desurable that what might be termed the eastern such of this Chukkar Road should be made into a prominent rootway preserving generally its present alignment which exists as a ride or path from the Dak Bungalow going in the north easterly direction through Kumbarwara and meeting the Pilgium Road at change 5,000. At this

point its length is about 2,300° and further on it preserves the same sugment as the Pilpinn Road for a distance of about 700°. It then branches to the right or north east and continues on to mee the southern boundary of the Alwar Distate, it combines more or leve parallel to the eastern boundary of that Distate for about half its length.

Apart from a question of traffic, it is doubtful whether the coat trunction of this road to the north and there could to the case meeting the Dilwata Timple Road would serve any useful purpose and for that reason I refram from making any proposals with regard to the development of this particular road. The total length of the proposed road to be constructed would be about 850° I at a cost of Ra 15 000° The construction of this road will form a very important improvement. It should be 20° in width, 12 to the south east of the alignment being carpeted by 6° of mettl and 8 feet on the north wast being smiked and kept us a ride I am conscious of the feet that fits alignment. Will not show any great financial refurn on the lands immediately developed by this road as only 10 or 11 plots will be directly affected.

BRINGH ROLD NO 1

The object of this road is to connect piots Nos 43, 44 and 45 with the Main Abu Road I is followe practically the alignment of the evisting track and its construction is therefore a simple matter 2 he length is 500 feet and the cost of constructing a 20 road with 12 retail surface would be in the noighbourhood of Re 1,000 only

BRANCH ROAD No 2

This is a branch breaking off the immediate southern and of the Figirm Road passing in the north westerly direction group access to plots Nos 32, 33, 34 and 35. The total length of this branch is 1,200 feel and the estimated cost of construction is R × 300T. The only alternative to this access would be by means of culterts across the nulla which intervenes the sites and the 4by Road. The culterting is much more expensive than the road construction.

BRINCH ROAD NO 3

This road practically means reconstruction of the first 2 000° of the existing Genombly Read s track head) if note no feat improving the alignment and grade with a view to make it satisfies for echicular traffic. The alignment suggested which is designed to give recess to site Nos 40 52 54, 56 and 60 breaks of from the Abir Read Rom a point 200° south-east of the existing road, will be found to be both oney and economical. The total height accorded in the 2000′ length is about 100° and the estimated cost of constructing a 20° road with 12° metal surface result be in the neighbourhood of Tis. 10,000 inclusion of the three small culturers on the way. The alignment will however too shew any great financial return on the lands developed by it as only 5 poles will be directly affected.

BRANCH ROAD No. 4

This is intended to connect site Nos 61 62 and 63 with the Abu High School Road. The total length proposed to be constructed is 900° of a 20 width with 12′ metal surface and the estimated cost inclusive of the two nulls crossings would be about Rs = 000

An extension of this road by the west side of site No G3 is the only means of providing access to site Nos G3 G6 and G7 further south set but the proposal would be firmmailly impreciable by reason of the intercention of the very wide Kudra mulla. These sites also, Nos G3 and G7 to the south of Abu III. In School are rather out of wax and for reasons stated above re-the difficulty of providing access are not likely to find a market unless others are disposed off. The only as to provide an access to site Nos G3 and G7 is by reconstructing the old cart road from where it breaks off from the Abu III. School Road to a distance of G90 and by providing a brauch road G60 length from this point to be sites on the west.

BRINGH ROUD NO 5

The object of this branch road is to connect site Nos 23 and 24 in Airk huper with the Pil₂-rim R of 16 starts from the north each error of site N 25 / 1 per similarly 1 mile from Abu Read and runs southward along, the 150 path on the northern boundary of site No 25 and across the age of the 11 lind upto the fit of the Kidashup ratiff. The length 1 760 and the ground is quite plain. The estimated civil of contraction of a 25 and the ground is quite plain. The estimated civil of contraction of a 25 and cold with 12 metal surface inclusive of the 3 guitthes of gricultural limit to be acquired as approximately Re 1 200.

BRINCH ROID NO 6

The road gives access to site Nov 29 and 30 and the alignment flown in the only one printendle owing to the very difficult rature of the ground on other sides. The road is designed to follow one of the approach roads (langth 209) to the block of outhouses to the case of the Tabel and contine solor the slope of the lattle in the north western direction to the meth west corner of sits. No 30. The total right of new construction would be 80% and the grade will not be search. The estimated cost of construction for 20° width with 12° metal striken it The 2-400.

Briven Roid No. 7

Intended to give access to site No 20 adjacent to Golf links Length 500' Petimated cost of making a 20' road with 12 metal surface is Rs 1,000

BRANCH ROAD NO 8

This is a branch breaking off the 4 miles chall ar road from a point 2 700' north east of its bifurcation from the Pilgium Roal to the south of Gora-chappra village and introduct to give access to site Nos. 11 and

12. It traverses fairly good ground and has to cross two very small nullss which could be slabbed over. The estimated cost for the 70V length proposed to be constructed of 20' width and 12' metal surface approximately Rs. 2,000.

Branch Road No. 9

This breaks off from the Pilgrim Road (realigned) from a point downwast of the nuitary well situated to the south west of the Alvar site and is intended to connect up site Nos. 2, 3 and 4 with the Pilgrim Road. The total length proposed to be constructed is 850, and the estimated cost of construction is Rs. 2,000. Although the road has been designed to serve the attes severally, it is very likely that the three attes may be sold in a group in which case the length of the proposed road would be shortened by more than 2/3 of its length, keaving only a nominal length to be constructed, which it may be found convenient to leave to the purchaser. The foot-path from the Bakmer, House would in this latter course have to be diverted at Government cost, so as to get clear of the sites.

IMPROVING EXISTING ROADS.

I have not considered it necessary in the limits of this report to ceal with the improvement of the existing roads; such improvements would be in the nature of widening where necessary

THE LAKE HOUSE ROAD.

I permit myself a remark on this road to the effect that the first 700 length of this road from the Lake House to the foot of site No. 71 to the north-east should be widened to 16f, and the shrupt change in grade at the end of this length removed, so as 6to provide a good vehicular traffic road to site No. 71. The cost of improvement is expected to be in the neighbourhood of Ris 500 only.

THE SUNSET POINT ROAD.

The 1,600' portion west of the Residency lawns from the junction of two roads to the point where Bayley's walk takes off from the road is already family good but needs resurfacing, which I think could be denot at a cost of Rs 600 for a 3s metal surface over 12' width.

It speaks well for the Administration that I have not felt called upon to criticise any of the other roads in the station, which are all generally in very good repair and of reasonable alignment.

VALUATION-BUILDING SITES

In arriving at the site values of individual plots it has been necessary to take into calculation generally eight important factors:—

- (1) Situation of the locality and existing development.
- (2) The area of building lands by comparison to the area of the whole plot.

- (3) The contours
- (4) Water supply
- (5) Distance from developed area
- (6) Altitude and prospects
- (7) Available garden lands.
- (8) Existence of trees or wood lands

Each of these factors naturally play an important part in the hypothetical purchaser's decision as to the amount that he would nay for certain building sites, and an attempt has been made to average out the rews of the market in deciding just the right proportion attributable to the values in respect of each of these factors and it was a most difficult problem as the values had to be so equitably adjusted as to give proper consideration to each of the tiems

However, an attempt has been made to achieve this and with the results indicated in the general list of values of plots which appear in the appendix No. 1. When discussing the ments of the plots and the opinion expressed that one plot is better than the other, it does not increasantly mean that the rate per acre of the first plot is greater than the second, for in the case of a very small and compact plot it might be ammently suitable for the exection of a small house without much wastego of surplus lands, whereas in the case of a larger plot, it would be more suited for a more prefetnious development.

A very careful consideration has been paid to the merits of individual sites, and the valuation shows my estimates of the values of those attes as they exist to day and as they would be after the construction of the roads indicated in another part of this report

It must be clerily understood that the values shown presuppose the existence of a certain market for the land. To all intents and upproses no lands have been in recent years either sold or lessed, and it is a matter of speculation as to what the market would be like assuming the property is put up for auction. However, the prices given may be tale in as being the present day rites, and immediately the plots are sold the areas in the neighbourhood would tend to slightly rise in value. It may generally be stated that the total value of the lands shown as building sites represent their value today on the assumption that the roads proposed have been constructed.

I attach in the form of an appendix (No 2) a complete list of all the building sites in numerical order with a brief description of the individual boundaries, which could be suit-bly printed for circulation to intending purchasers and used with advantage in computation with the small scale map I have prepared for general use. Thus 6° map shows all the building sites as well as all existing burgalows.

FINANCE

I also attach to the report appendix No 8 which takes the form of a financial summary giving the cost of carrying out the development of

the building actes as well as the incremental value resulting from such development I rom this statement it will be seen that the total manmental value of the lands developed amounts to Rs 36,400 to which must be properly added Rs 80,600 the capitalized ground rent scrum, from such development These two figures amount to Rs 1,960. On the debit side the expenditure totals Rs 1,69,000 but initially moindes the cost of construction of what may be properly termed unemunerative roads as for example the large part of the four mile chulkar road and a considerable portion of the Pilgrim Road Aeither the delit nor the credit side has been discounted on the basis of actual development and disposal, for it is perfectly clear that it would be only a wated money to construct more roads than are absolutely necessary to meet the correct demand as it arises and in the same way it would be wrong to assume that merements will be immediately payable without the contruction of roads or undeed oven assuming they are all at once constructed Actuarially therefore it will be quite wrong to include the total value of all the building plots in the Municipal balance sheet as an asset at the figure of Rs 4 30 000 and it is quite beyond the powers of any valuer or actuary to state with any accuracy what figure should be adopted for such a purpose The most that could be done as to defer the total values for a period of years during which it might reasonably be supposed that the lands would find purchasers in the marlet If we rike an outside estimate of such a period say 20 years then the present value of building sites might properly be stated at Re 2,40 000 and it would be reasonable on this basis to take the present cost of development assuming complete construction in 16 years. This would reduce the present value of this expenditure to Rs 87,610. In this way the difference between income and expenditure is Re 1 52,350

BUILDING SITES IN DITAIL

In the absence of any particular nomenclature to the sites I have attempted to classify them in groups more or less defined with respect to their general relationship to known roads or localities. These groups are 8 m number and in addition there are a few isolated cases of individual

The eight groups

- 1 The Bikaner Group
- 2 The four miles chukkar group
- 3 Golf Links group
- 4 Kalı Chappra-Torna group
- 5 Tahal group
- 6 Abu Road group 7 Gaomukh Road group
- 8 Abu High School group

The number given to the site in this report corresponds with the site number on the plan

Site No. 1

Area 8 acres.

Locality Four-mile chukkar read

Distance by Road from Port Office 1 85 miles

Approx mate altitude of the positions for building 3 980 feet.

The site is situated to the north-east corner of Alwar site and is bounded on north east and partly on the west by the four mile Chuldar Road and on the south and partly on the west by the Alwar site. It consists of a high hill with rapidly falling slopes and fairly good ground for binding on the top, which commands extensive news all nound The difficulty of water supply and the out of the way position of site which litter renders it difficult to provide it with a pueca access to site are however detractive features. Value 500 rupees per acce

THE BIKANER GROUP

Consists of sites numbered 2 3 and 4 and is situate to the east of Bikaner House, extending as far as the existing Pilgrum Road on the east. The group has the peculiar adventage of being in a more or less developed locality, has a potential access over the northern portion of the Pilgrim Road and has a well in the vacuity for water supply. A pucca access over a 20 road (Branch Road No 9) is being provided for under the scheme in order to connect the sites with the proposed Pilgrim Road which runs close by on the east

Site No	Area acres	Distance by road fro u P O mile	Alt tude	Value as existing per nore	Value as developed per acre
				Rs	Re
2	8	1 42	8 880	8,0	1 100
,e	ا و ا	2.49	ميور	200	חמשיב
4,	39	1 42	3 880	820	1 025

I consider site No 2 as the best owing to its higher altitude and commanding position Next in importance come Nos 4 and 8 respectively, the former of which has comparatively better ground for building

Site No 6—Area 7—12 acres Distance by road from post office 1 ame Approximate altitude of position for building 3,880 feet Thus 1 a mee high site situated on the Filgrim Road to the east of Gora Chuppra village The site commands extensive news all round, but the rapidly falling slopes would necessitate terrace development for the sides, and a

certain amount of levelling at top. This is a case where the actual building area is restricted on account of the rugged slopes especially on the north and west. The burnal ground to the east is very much lower and, the drawback is more apparent than real. The site has a ready access on the Pigrim Road and facilities for a well on the nulla to the north; east

Value as existing Rs 800 per acre. Value as developed Rs 900 per acre

THE FOUR MILE CHURRAR GROUP

Consists of aire Nos 6 to 16 inclusive In all II sites with an aggregate rate of 66 acres. The group is situated to the south east of the Alwar site and with the exception of into Nos. 11, 12 and 16 all the sites are directly on the four mile chikkar road. Of these plots 6, 7, 8, 9 tof which 6, 7 and 8 are coleromious with the eastern Alwar boundary) are situate to the west and the remainder to the cest of the road. They have those a kutchia access it present, which under the Scheme, I am proposing to convert into a installed road 20° wide. I refer to this under the chapter on Traffic communications." Justice hood No 8 will provide access to site Nov. 11 and 12 which are situate at a distance from the road towards east.

S te Nos	Atea sores	Distance by road from P O miles	Altitude of position for building	Value as exis sag per acre -e	Value as developed per sere.
				Re	Rs
6	4.85	1 58	8,900	650	760
7	875	143	8,860	850	900
8	36	1.26	8 840	750	950
9	35	1 28	2 830	800	750
10	5.15	15	8,820	540	775
2.	200	1,1785	5800	, -6a	770.
13	6	1 55	8,830	500	760
33	3-25	1	3,530	700	, 860
34	4	1	8,420	840	1,000
15	8	1	3 815	800	950
16	83	15	2 870	800	1

Sites 6, 7, 8 and 9—Are more or less uniform as regards amendies No 8 is the best as it has the advantage of possessing plenty of good building ground Next in order of merit are Nos 7, 9 and 6 Costly,



provided with an access—branch road No 7 under the scheme The well in front of the Dak Bungalow could be used for water-supply

Site Nos	Area pores	Distante by road from 1 O miles	Approximate altitude el the build g position	Value as existing	Yalus as developed
				Rs	Rs.
17	2 25	Ø 8u	9550	1 200	
48	31	0 4	8,800	640	810
18	2	ሁፈ3	3 860	878	907
½0	27	0-60	880	500	€20

I consider site No 17 the best of the group and 19 18 and 20 next in order from valuation point of view

bits No. 17—As previously indicated this into his the advantage of boing on a good methled road. The big boulders at top it into sight seems to screen off the front but in the hunds of a good developer it is feature could be very meety subtract to add to the inneutry of the six The boulders add a peculiar ratural beauty to the hund and with the building bell mid them amongst the shady trees and a garden out the flat piece of land in the forefront to the north vest a more fact, would result. Loe building point referred to hast a mee view of the station to the north vest

Sitt. No 18—Thus is attracted to the west of Lumbarwaran vallage but sufficiently removed (400) from it A farly good side but with steep rocky slopes especially to the south west on the road side. A fine bug free perhade on too of the esteen portion of the side outline before cloped at a small cost into a small building plot with access from the four in loculation road. Has facolities for a well in the multi-to-the south west The burnal grounds to the south are it is uniferstood now; closedt up slice two years nevertheless they act to b certain extent as a detracting feature

Site No. 19—This is close to R. C. Chapal and its lighest portion consists in fact of a big rocky crainence. The other portion is fairly woody gift the whole has easy access and water supply

Site No. 20.—Under existing conditions this site has little binding ground on top owing to the rocky outcrop running east and west along the whole length of site. A systematic cut and fill operation would roude the site useful for a small bingelow. It is in a developed locality and has been provided with an access under the scheme.

THE KALA CHIPPRA-TORNA GROUP

This group consists of sites numbered 21 to 28 inclusive With the exception of site Nos 23 and 24 which are at a distance of 600' east of the road and consequently requiring the provision of a special access,

the situated on the Phigtun Boad between Kala Chappra and Torna villages Access to these is given by brunch rood No 5. Site Nos. 26, 27 and 28 are situated to the west of the Phigrim Rood and are separated from it by the 'Nada' a very large stream which would involve con struction of costly bridges if the sites were to be provided with pueze sprincednes. As this is impracticable as an economic proportion no pueze access to these sites has been attempted under the scheme. The sites are however within a reasonable distance of the station and are likely to find a market's some or intered.

Site \a.	Área, neros	Distance by road from I O miles	Approximate altitude of the position for building	Value as existing	Value as developed
				Re	Re
21	4	082	2,840	675	.pso
22	8 76	116	3 800	679	7.0
23	6 55	1 28	3 870	800	725
21	3 30	1 25	8 800	650	8C0
26	600	121	3 780	850	875
28	6-00	1 32	3 860	450	ŀ
27	6 15	1 30	3 850	450	
28	5 50	1 \$0	3,850	450	

Site No 21 is in my opinion the best and Nos 25 24 22 23 and 26 to 28 come next in order of ment

Site No. 21.—This is situated between the Kumharwara and Torna vilages and has a direct scess over the Filgram Road which i uns close to its northern boundary. The site falls rajudly on all sides except the west, but affords good ground for building at the top. It commands good prospects on all sides and has a couple of fine big trees on it

Site No. 22.—This is coterminous with No. 21 on its south west boundary and mostly consents of rough and rocky ground with the exception of one fairly good pick of land to the north west fit for a small bungalow. The site has certain amount of prospects especially to the north west but the burning ghats in the nulls to the south west is a desided disadvantage.

Shi-Nov 23 and 24—These are close to Kala Cheymra village and form part of the hill situated to it east. No. 23 which is to the north east as the top of the hill and No. 24 to the south east is a natural terrace on the hill side. While the former is mostly rough and rocky the latter consists of good ground for building. The one good point with regard to No. 23 as however its high altitude and consequential good prospects under command. The well in the nulla to the south would serve

both the artes The burnel grounds, now closed which are attacted below the high chills on the north west cannot be considered as a disqualification

Site No 26 —This is the next best site of this group. It is directly on the Pilgrim Road, has a well to its south west in the nulla close by and farrly good ground to build upon. A certain amount of filing up would be required to make good the dips and hollows but the result would be very effective.

Site Nos 26, 27 and 28—The impracticability of providing a piece access to these sites has been referred to already. They are situated on three adjacent ridges to the sait of site No. 25 and oversooning the 'Nadu' and are almost similar to each other in features, amenities and prospects. The rapid slopes would movely the usual hill side development. Considering these disabilities their value must be very low.

THE TARSH GROUP

In this grouping are mentioned sites numbered 29 to 38 inclassed, extend to the view in the Tabia in and the existing Playim Read to the south east. With the exception of site 36 which has a frontage on Abu Bord, all the sites have 51 per provided with purces access reads under the Scheme Sites 51, 97 and 58 will have frontages on the proposed Playima Road, whereas branch reads Nos 6 and 2 will provide access to sites 99 and 30 and to 59, 33, 34 and 35 respectively. The group is not lar from the developed locality and being mostly situated in the vicinity of Abu Road is bliefy to be disposed of comparatively early

	. .				
Site No	Area, scres.	Distance by road from P O, miles	Approximate altitude of the position for building	Value as existing per acre.	Value ne developed, par acro
				R.	Re
29	88	1	8 900	675	900
30	7:85	1	8 900	650	1,000
81	7	1 86	8,790	200	800
*****	امتدا	ı -ı-ı i	1 - 3792 u	1 045.	i 190~
89	8	14,	8,860	840	700
84	41	14	8,850	520	760
85	57	14	8 770	800	1,900
26	2:25	1	2,760	200	
87	~ 8-9	1 29	8 780	700	900
33	8 88	1 25	8,800	, 925	1,050

Site Nos. 29 and 30.—These are situated to the north east of the Tahsil and have been provided with access over branch road No. 5. (They are high and airy and 30 has a couple of fine big mango trees in it.) If the drawback to this latter site however is the existence of the incinerator and night soil depot situated immediately to its south west. The position of these works is such that a great portion of this site, which consists of a beautiful high plateau with fine prospects is subjected to the foul smells carried by the winds, and the source of objection must be removed. I suggest an alternative site for them in another part of this site as a building site to be very much depreciated. The value of site 29 is also to a certain extent prejudiced by these works, for although the site itself is further north east, one has to pass the objectionable works in approaching the site. "As regards water-supply, the well adjacent to Tabsil could be utilized.

Site No. 31.—With a frontage on Pilgrim Road it is however a poor site due to the existence of two nullas throughout the length of the site from south to north. They are natural torrents during the rains and it is quite impossible to attempt any diversion. The contours are abrupt and building construction could only take place after extensive terracing is completed. This is one of the least eligible sites for the reasons above stated, and I imagine it will be the last to be built on. Its vatue cannot be more than Rs. 300 per acre.

Site No. 32.—This site forms the centre of the group of 9 sites to the north of Abu Road, and is the highest and best of the whole group. The water-supply is assured as there is a well containing potable water to the south adjoining branch road No. 2 which provides access to the site.

Site Nos. 23, 34 and 37.—These are rough and rocky and would entail heavy expenditure for levelling in order to make them suitable for building. Access to 33 and 34 is provided by branch road No. 2, and 37 will have a frontage on the new Fligirm Road along its eastern boundary. The well referred to in site No. 23 may also be used to serve these sites. It is doubtful however if site 33 will be sought after with other lands available, owing to the difficulty of developing it. The branch road merely gives access to its southern portion whereas the highest and northern part of the plot would require extensive internal development to give access to it. The only good part is its commanding position and this is especially true of the northern partion of the site.

Site No. 35.—This is a charming little site with good building ground at lop, a few fine shady trees and a well near by (referred to under site 32). The cultivable ground at the south west corner on the bank of the nulls is an amenity.

Site No. 36.—It is situated on Abu Road from which it has a direct access. It is ripe for immediate development and has facilities for a well in the nulls on the north west. This is one of the nearest sites to the developed part of Abu, but it has the disadvantage of being comparatively low juving, and its surface is rocky and uneven. Like all sides

fronting a main road it must be subjected to dust from passing traffic Its position on Abn Road however must give it a certain added value in the eyes of the purchaser who likes to be in an established thoroughfare

Site No 38 -Lake No 35 this is also a charming little site possessing fairly good building ground at top and the advantage of a well in the south west corner and a small piece of cultivable land. The site may be said to have some sort of access along the existing Pilgram Road but it is more nominal than real due to the road being impassable for vehicular traffic

Site No 39

Area D stance by read from Post Office in m les 12 76 neres Approximate altitude of the position for build 3 R.O feet

This is another site of the same categor; as 26 27 and 28 situated to

the north east of the Dhundari village on a high plateau but with fairly good building ground at top Had it not been for the difficulty of providing a pucca access the site would have been one of the first class ones Value per acre Rs 450

THE ABU ROAD GROUP

The group which is situated to the east of the Abu Road and High School Road junction consists of 9 siles Nos 40 to 48 inclusive all baving frontage on Aba Road with the exception of site Nos 41 43 and 44, which latter have been provided with a pucca access along branch road No. 1 Site No. 47 has an additional frontage on Abu High School Road The public well at the north end of the Kudra Nulla bridge could serve the whole of the group for its water supply

Site No.	Arca, acres	Distance by read from P O 12 miles	Approximate alt tude of the posit on for building.	Value na existing per acre.	Value as derrloped
			Fort.	Re	Rs.
40	10	16	8 670	1,000	
41	6-4	18	3.880	600	876
43	29	16	3,750	875	į
43	6-15	1 82	8,800	500	750
44	4.5	167	3770	425	875
45	44	16	8 770	800	960
46	275	16	3 740	875	
47	2 00	144	3,570	'3 025	
49	140	1 00	3 ~~0	*00	!

Site Nos 40, 41 and 42—As a building site, I consider site No 40 as the best of the group as in addition to its having a ready access and water supply it has the advantage of high slitude and consequently very mice prospects. The top portion could with hithe expense be rendered capable of accommodating 2 or 3 bungalows with apperiment buildings. A smaller summer house may be perched on the prominent rocky projection overlooking the Abu Road, thus adding to the cherm of the site. Nos 41 and 42 which although coternmous with this site, are much inferior to it, especially the former, which is rather in the back ground and has bad contours. No. 42 has fairly good contours but is comparatively very low.

Site Nos. 48, 44 and 45 —This is the furthermost group on the Abu Road and is situated on a ridge running west to east to the east of the Kudra Nulla Bridge. The group has a certain amount of access over the katcha track running along its northern boundary but in order to rarks it fit for vehicular traffic, the track is proposed to be reconstructed (Branch Road No 1 on plan).

Site No. 45 which is situated on the western end of the bridge has good building ground at top and has a couple of fine trees. The public well referred to already is nearest to this site. Site No. 44 is lower than this in quality and site. No. 43 still lower, as the latter has rapid slopes requiring costly terricing to prepare it for building on. If has one good point over others honever, in the fact that its height commands better prospects than the other two.

Site No 46—This is opposite to No 45 and is girdled by the Kudra-Nulla on its north and west and is just exist of the Abu Road. It has a good flat piece of land in the forefront which however is only a few feet above road level and is consequently hable to dust and nuisance from passing traffic. The higher portion towards south is sloping ground, necessitating the usual hill slad develonment.

Sites Nos 47 and 48 —They are situate to the south of Abn Road between the Abn High School Road on west and the Kudra Nulls on the east Both here frontages on Abn Road but site 47 has the advantage of hoight and of a fine by tree on it. The excess chowla at the next of the tree of the tree of the tree tree to the next opposite the take off of the new Pilgram Road where there is a suitable plot for it. Site No. 48 is cut up by a small rulls which could be directed along the common boundary of 47 and 48 to the west, but the cost would be prohibitive especially as the site is small.

THE GAOMUKH ROAD GROUP

The group which is aituate between the Gaomukh Road and the Abu High School Road, consists of 8 sites Nos 49 to,56 inclusive; Of these sites, three vizz, 50, 51 and 58 have frontages on metalled roads, the first two on Abu, Road, and the third-on Abu High School Road, while the remaining 5 sites have been provided, under the solemé, with a purca access along Branch Road No 3, which with the exception of the first 500' length mostly follows the existing abgrament of the Geometh Road These five sites are rather out of the way, and have the further disadvantage of having no suitable spot for a well nearby as the sites are mostly on rocky hall tops.

Site No	Атея, асточ	Distance by road from P O in miles	Approximate altitude of the position for building	Velue as existing, per sere.	Yalus as dereloped, per atra
			Ì	Re	Rs.
49	82	12	8,848	500	760
60 .	88	1.27	9,880	800	-
51	81	1 80	8,920	750	}
52	69	140	8,900	650	576
58	B 18	147	3 860	725	}
54	35	1-37	3,100	525	725
66	8-8	143	8,580	503	700
56	2 76	1 16	2,870	800	725

I counsider sate No 50 as the best of the group, next in order being 51, 58, 52, 54, 49, 56 and 55 Site 52 is high and commanding and has better contours than 50, but it has the disadvantage of heing in the back ground, and has difficulty of water supply Sites 55 and 51 come next in value as building states Soft have the advantage of a road frontage as well as proximity to water supply, but the latter has bad contours, whereas Nos 54, 56 and 55 are a lattle better in the respect Site No 55 however is mostly rocky and its value as a building sate must be very low

ABU HIGH SCHOOL GROUP

In the group which is straste around the Abu High School is nucleided inten Nes 57 to 69, no full 3 sites of which 5 viz, 67, 88, 59, 80 and 64 have frontages on Abu High School Road, and have wells us their variety Consequently they are rupe for building development. The existence of the High School nearby has to a certain extent developed the locality already. Sites Nos. 61, 62 and 63 have been specially provided with an access, under the scheme, by means of Branch Road No 4. The remaining 5 sites, viz. 65, 66, 67, 65 and 59 are out of the way and the practicability of the provision of a pucks accessed them 3 sites.

distinctly doublful and this is dealt with under the heading of Traffic communications

81 e Xa	Area, acres	Pustance by read f on P O in miles.	Approximate altitude o the possion for building	Value of existing per acre	Value as developed, per note
				Re	Rs
67	178	1 59	8,760	900	
68	2-9	1 56	3 890	700	750
88	61	1-65	3,770	960	1
60	1700	18	8,780	920	
61	4:2	1.58	3 880	500	700
62	3 2	1 68	8 780	F25	725
63	43	1 0	9,510	550	800
64	6-So	176	8 835	3 000	ļ
68	4:00	230	8,550	875	
66	340	21	88:0	875	ł (
67	1 410	2-07	8 830	3 5	
(8	345	22	8 080	450	
69	285	2 23	5,365	450	

Site Nos 57, 58, 59 60 and 64—At once ripe for development as they have a ready access and a convenient water supply I consider site No 64 which is situated on the hill to the north of the Abu High School as the best of the group. It is high with good building ground and fine woody slopes. The site commands beautiful prospects on all sides.

Next in order of ment are 59, 60, 57 and 58. The first three are more or less flat sites practically at road level, they have good building ground and existing trees on them which is a great namently. Nos 57 and 69 are each only capable of accommodating a single bungalow but nite No 59 could with little expense be made to provide for two. Site No 88 has the advantage of height but the contours are not good

Site Nos 61, 62 and 63—These are streated to the north west of the Abu High School and 61 and 62 are coterminous with each other. Site No 63 is the best of the three, due to its having better contours than Nos 61 and 62, which have an undulating surface which requires to be levelled up to make it fit for building. All the three sites are fairly woody and the existence of nullies closeby would render it not very difficult to find a suntable spot for degring a well for their water supply

Site Nos 65, 66 and 67—This group is situated to the west of Alex High School and the Ludra Nulls has to be crossed to get at their Phe difficulty of providing an access to the group has been strate, alluded to The sites themselves are of a poor nature as regards contours and other features and honce are not highly to be disposed of until to others are available. Their value must therefore be necessaryly low

Site Nos 88 and 60 ~These are stuste on the hill to the south of how High School and are over two males from the earner of sativity. They are high and arry and bare fairly good contours, but their runnieses as well as the impracheability of providing a purcas access to then are defineding features so far as their rulnie as building site's le concentration.

SITES ON LAKE HOUSE-DIEWARA ROAD

Sites Nos 70 and 71.—These are stunted to the north of the elever coad and have frontages on it. Site No. 70 is to the north of the Rapputana Club. It is bounded on the north by the boundary hims of the leased area between pillars Nos 52 and 53. Site No. 71 is to the north of Swingly Lodge and is decidedly the better of the two by reason of its having better contours and a piece of fat haid at the top which appears to have been put to agraciatival use although it does not seem to be very well suited for it. The farm house on it is only a derelic structure. Both the sites are practically in a developed locality, and have realy faulties for water supply. The existing paths leading to Adhardes and the Crugs through site No. 70 need diversion which could be easily done.

Site No. 72.—Thus sate is stirrited to the east of the junction of the Lake Hones and the Andra Roads and consists of a lings mass of rock. It is a high site and commonds a beautiful year of the Nakhi Lake but the difficult and rocky ground of which it mainly consists would require a tremendous expense to develop it as a building site consequently its valle under existing conditions must salurally be for

S to No.	Arm, serea	D stance by road from P O 10 m les	Approximate a titude of the po : son for building.	Value us ox st m	Value on deve oped
				Rs.	.Bt.
70	415	0 62	8 960	876	
71	4:00	0.83	8,880	1,000	1 100
72	86	0-32	8,950	çês	,

SITES ON THE NAME IJAKE

Site Nos 73 74, 77 and 78—Of these sife Nos 73 and 74 are situated to the north of the lake site No 77 to the west and site No 78 to the south. The sites are mostly rocky especially Nos 73 74 and 77 I have an undulating surface and it would cost a great deal to develop im as building sites Being situated on the edge of this beautiful lake wever, they would make grand building sites if properly developed.

šįte No	Area, acre	Distance by read from P O in miles	Approximate altitude of the position for building	Volue as - existing, per acre	Value as developed per acre	
				Re	Rs	
78	4:00	078	9 850	800	ŀ	
74	74	2 37	9,830	E00	ļ	
77	873	1-60	8, 90	800	١.	
78	3.8	0.95	8,970	850		

SITES ON ROBERT'S SPER

Site Nos. 75 and 76 —These sites are situated on the western boundary of the lessed area between the Anadra Road and boundary pillar No 43 which is actually built on the place locally known as Robert's Spar The Dhobyghat Aulla which flows down from the Nakht Lake separates these sites from the Anadra Road, but a crossing is not very difficult. Site No 75 is the better of the two, as it is a level plot with plenty of shady trees, whereas No 76 although higher than 75 is very undulating and is almost barren. The locality however, is very lonely and there is more than a dauger of pollution from the Dhobi Nulla fia well is constructed in the Nulla referred to These are serious disadvantiges, and it is very likely this pair of sites will not be in much demand by the ordinary person in the market

Site No	Aten acre.	Dietance by r ad from P O 111 miles	Approximate altitude of the position for building	Value ne oxisting, per acri	Value ns developed, per nere	
				Re	Re	
75	31	1 20	3,710	800	***	
76	82	1-29	2,700	600		

SITES ON SUNSET POINT ROAD

Site Nos 79, 80, 81 and 82—These sites have frontages on the Sanset Point Road which is a fairly good road for whichilar traffic except for a portion on the west (priposals for the improvement of which are being made under the chapter." Traffic communications.) Site Nos 79 and 60 which are studie to the south and west of the Residency larvas are nice little building sites already in a developed locality and pro-sessing

all the amonites necessity for building development. Although not very high both have a raised plot of ground suitable for a small bingalow and have a portion of low ground each which could be laid out as a garden

With regard to Nos 81 and 82 whereas the former is sloping rot of great beight for the greater portion the latter is quite a plan site a fur feet above rosed level and capable of immediate development? The former is berrein and the latter profusely woody. It is possible a well could be dug at the south east corner of the 61 close to the Nulls running intently. The ioneliness of the locality is however a disadvantage to the sites.

Site No.	Arca, acres	Dreinsce by road from P O is miles	Approximate altitude of the position for building	Value as existing per acre	Par acre	
				R•	Re.	
79	2:1	0.50	8,820	1,2 0	1 276	
80	18	0.95	8,83v	1 200	1 340	
81	0.00	14	8 070	600	700	
82	340	1:37	8,907	810	1900	

IMPROVEMENT OF BAZAAR AREA

The Executive Engineer supplied me with the original plan on 33 feet to an inch of circy made in 1919—1 understand by niceus of a fluodolite and plane tablo,—in order that my recommendations should be on definite lines, I thought it necessive to have this plan checked and for this purpose the Executive Linguiser cuty Emily placed a surveyor at my disposal. The results have shown that this precautionary measure was necessary mismuch as one of the important road alignments in this plan was very much out. For example, the portion of the Post Office road from its junction in front of Bhisti well with the Bluaritpur road right up to the junction at the South West of the Church. A check measurement taken from the South West corner of the Minneyall eattle shed in line with its front face to the centre of the Post Office road showed the actual distance vs 58' whereas the plan showed 60'—a doustoon of 22 feet.

I have had the plan corrected as far as the time at my disposal rould allow and am attaching herea this plan which has been froughts up to date. On this plan I have shown my various proposals in distinct colours and in this way I have made it as far us possible self oxplanatory. The Munerophity recognizes that improvements to the Dazzar area are mesessary and there is therefore no need for me to discuss the subject from this point of vices. In discussing the bazaar area I generally refer to the properties bounded on the North by the road in front of Sirohi Vakalat and the Telegraph Office, on the East by the church and Post Office road, on the South by the Trever Oral and on the West by the Bharatpur road about the Agent to the Governor General in Rajputiana's Skitchen garden and the Anglo Vernacular School. The total area is approximately 15 acres, and contains 300 buildings used almost entirely for residential purposes, 110 houses and shops combined, and 2 cattle sheds and stables with a total pondation as in 1921 of 1.675 made up of :-

Trading	13-4				60
Butchers					6
Others					25
Artinasa					ŧ
Coolies					80

From returns in Magistrate's office, I understand there are 70 cattle privately owned, of which 30 are tethered in the Baraar, and 12 municipal. One of my proposals contains suggestions for the erection of purca cattle stable in which it is desirable that all the bullocks and bufalacks kept in the area should be properly housed. It is necessary to point out that the stabling of bullocks, etc., within the immediate precincts of residences such as we find in this area is most undesirable and very in-anitary.

The area generally slopes from the North-East with a more abrupt fall from the East from the Post Office road which is so named locally for want of some official designation. Land also slopes from the Telegraph Office road, from the West and North; the total result of these contours is that the centre of the line running approximately North-East to South-West forms a natural mills which collects the entrace drainings from a considerably large area on the North-East. Practically to attempt has been made in the past to deal with this surface drainings or to train the afore-aid mills with the result that it more or less wanders lapi-hazard over the South-East portion of the area. I make hird recommendations for dealing with this portion.

It should be at once understood that any proposals which I have made are governed by the fact that so far as can be ascertained no large equital ann is available for expensive requisitions and the result is that I have attempted not an ideal development scheme but an improvement of the whole area which should be within the realms of possibility of execution. This being so I do not attempt any drawtic changes in the main hazar road which are flanked on either side generally, by properties of old standing in the form of shops and residences any interference with which would naturally mean heavy expenditure. I have confined my proposals to the treatment of the hazar paper, to improvement of gradients where possible and provision of surface drainage facilities.

GENERAL DEVELOPMENT

I now come to the consideration of the general development of the buzan area and very little is required to be said in this connection at L. whole of my scheme has been shown on the accompanying pl No 847

The whole scheme resolves itself into the acquisition and demolities of insamilary properties where the cost of acquisition would not be prolubitive and the construction of subsidiary roads which would allow of suitable building sites to be provided. An important feature is the realignment of the road running to the South West of the area and North-East of Trevor Oval The plen will indicate that I have com pletely changed this alignment in order to make the road itself a boundary to the Oval proper This would bring into use a good deal of the existing waste land involves the removal of the male lattimes and will provide excellent building sites overlooking the Oval There is an existing group of trees almost opposite the Dill Kusha bungalos which I should like to see preserved but I feel it is impracticable as their preservation would entail a very objectionable alignment, and I have therefore reluctantly had to provide for their removal. These sites will I think be in considerable demand and should realize good prices. I have not attempted to arbitrarily lay down the actual areas of the individual sites and my divisions into plots are only intended to serve as an indication as to what I think might be suitable areas. Naturally the plan and estimates of any buildings which would be allowed to he constructed will receive careful scrutiny, and attention could be paid to the area of the plot which will be allowed to be covered by building Generally speaking in a development of this character I should not allow detached buildings fromg the Oval to occupy more than a 1/3rd area of the plot Were I dealing with the plots without the advantage of this large open space in front of them I should meist upon 4th area being left open I should recommend that sufficient open space be left between houses to allow of the free percolation of breezes into the interior With regard to the roads in the interior there would he no objection to having buildings erected in blocks of four or five with party walls. This is a describle form of construction and allow of build ings being erected at a minimum of cost and the land being developed as economically as possible. There is a certain demand for more shops and this can easily be met, with the land it disposal

TXISTING BUILDINGS

A brief alluscon has already been made to the shops forming the bearant proper. In addition to these properties other rendences are spread hap hazard in mote or less doie proximity to the bearant proper with the exception of a time of buildings more or less cottaminous, which runs from the South West of the main brazer in the direction of the Trevor Oval. This spin contains 15 proce structures and the remainder to can be generally described as being lattle more than huis. I am

recommending that a certain number of these huts should be acquired and demonshed, and the area resulting thrown into the adjoining open land

ROAD CONSTRUCTION

,

In Bazaar Proper

Under the heading of drainage, I have indicated my proposals in respect of the formation of this road in so far as the question of drainage is concerned. For sections and cross sections of proposals please see plan No. 849

It is apparent that the present surfacing by means of losely dressed slabs of stone is entirely unsatisfactor. The best possible surface having regard to the gradient and user would be asphalt or one of the several bituminous compounds

On the score of expense asphale construction must be ruled out but I timk an asphaltic concrete surface having as its aggregate the very excellent local stone should be within the range of practical pointee. There is very little if any, heavy traffic and the following mixture will give excellent results

By weight	10 per cent.	in stone Blone sifting	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	sand Retumen	

I need hardly add that the mineral and the bitimen should be separately heated to about 300° to 350° Tahr before mixing. If laid at a temperature of about 250° Tahr evenly spread to the required formation and rolled with a thin layer of stone chippings across the road and finally with a heavy roller in the direction of the alignment a road surface will be reproduced which will last with the present form of traffic for 70 verars or more

If it is decided that a bituminous material is too expensive then ordinary concrete with a cement floating should be considered

Ordinary waterbound macrdam would be unsatisfactory for obvious reasons of gradient and rainfall. For the road will be largely a road in name only and more really a foot passage

REGRADING AND SURPACING

The regrading of all roads is a somewhat difficult problem, due to the plinths of the existing buildings. The main bezaar is particularly difficult for improvement in this respect, but it is not necessary to deal with that in defail as I understand, the Executive Engineer at Abs has already worked out proposale under this head, in which he suggests the repaying of the main bezaar with stonellags. My previous remarks will make it clear that I do not think, this is the best possible treatment.

Brazen Roine

The branch send K L M connecting the bazaar with the Telegraph Office road can be considerably improved by cutting away the protruding rock to the south west of the Smohi lakalat house and improving that junction at L so as to give a uniform gradient. The road is particularly bad at M. and its width should be improved by acquiring a portion of the open ground forming part of the compound of the property to the South West This is more particularly shown on plan No 624 branch road N P connecting the end of the bazer road with the Telegraph Office road near Adam s Hospital can be unproved by filling in a little along the portion of its length about the contre, but I fear, this is as much as can be done to reduce this somewhat abrunt slove at either end The existing roadway to the North West of the houses Nos 82 to 88 and to the North Last of houses Nos 79 to 81 requires to be filled in by a death of 12 mehes in order to present the flooding which is a common experience to the adjoining properties during the mine

Nea Poins

The plan No 824 shows in detail the proposed new roads to be constructed The total length of these new roads is 3,000 ft They may be divided into two classes (1) 40 ft road to the North East of the Oval, and (2) 20 feet roads improving the existing properties and opening up new lands suitable for building purposes. In addition to these roads there are two access lanes each of 14 ft, in width which are provided for, one to the extreme South West of the estate giving access to a group of latrines and another to the North East grung access to another group of latrines They are marked on the plan hy letters F G and H J respectively The estimate of cost of construction of these new roads is included in Appendix No 7 which gives a total estimate of cost of the whole of the works included in this part of the scheme, from which it will be seen that the total estimate of cost in respect of these new roads is approximately Rs 9,000 The 40 ft road A B marked on the plan requires to be constructed throughout the length of 380 ft and then in continuation to the North West along the existing alignment widened to the North-East of the said align There is like most of the lands in Abu an excellent foundation to the roads already existing and it should have only 6" metal surface

The description of the 20 ft roads is quite universeary as the pradients and should be water bound and macadum constructed

For the surfaces of the proposed new traffic buzzar roads, which have easy gradients and for the ordinary access roads water bound macadum would be the cheapest, but if funds are available by all means tar meandum.

SANITATION

The sanitation of the area under consideration is bad beyond des oription. I have personally seen children adsucring calls of nature in the open land not far from dwelling houses and no amount of regulation would stop this. It will require an army of sanitary officers dotted all over the place if this practice is to be prevented. Even for adults the existing sanitary arrangement with latrines often at a great distance from their residences entail a considerable amount of trouble and inconvenience. I consider this question of the provision of latrines to be the most difficult of all the problems which have to be considered. For it must be remembered that unless reasonable facilities are offered, human nature being what it is, the people will not be prevailed upon to take long walks to answer calls of nature especially in hours of darkness when they are not under observation. The position of the existing latrines set apart for the use of males is highly inconvenient, and furthermore is most objectionable from the point of view of the general public. Their construction is elementary in the extreme and they are objectionable from almost every stand point. I really think that the best solution would be to have latrines dotted about at more or less frequent intervals rather than to have great blocks separated by considerable distances from the residences of the people who are expected to use them.

I have advanced somewhat in this direction by allocating in the plan five different sites, four of which are to actually serve as sites for latrines for the residential area and one in the nature of a public latrine just opposite the Post Office road, between the road and the bhisti-well. The latrines are shown on plan No. 847 in yellow wash.

The portable type of latrine at present in use should be abardoned for simple water flushing groups of say half a dozen seats in each group; A non-porous connecting trough under the seats could be flushed at intervals by a bhisti responsible for a series of groups. The trough would naturally be so graded as to allow of the rapid carrying away of the excreta into a collecting tank. This tank could either be of a portable variety or in the shapes of a cesspool with a trap, a water seal and hermetically closed. It could be pumped out as occasion required into a scaled cart and taken away for disposal during specified hours. There is no reason at all why the contents should not be trenched on suitable grounds with the ultimate benefit to agriculture in the form of manure. The form of latrine I have described has been used writh considerable advantage in other small dwns. An dhir way, I shir convinced, and in this way alone, will the only solution to the existing problem be found. It may be said that a great deal of expense will have to be incurred but I venture to suggest that the ultimate gain will far outway any initial cost. There would be no danger from flies and no smell. I am quite aware in making these proposals that water is not abundant but a large quantity will not be required for flushing purnoses if the arrangements are scientifically carried out. At a rough estimate, it may be stated that probably a provision of a gallon per dism for 10 persons would be sufficient. This would mean a total consumption of 150 gallons per day or say 200 gallons for 1,500 people. The total resulting sewage might be taken at under 250 gallons per day which would represent the quantity which would have to be disposed of either daily, neekly or monthly according to the capacity of the various chambers

I am attaching some drawings (Plan No 848), which give a rough a idea of the proposals in the form of sketch plane. It must not be thought that these recommendations contrin the finel and ultimate decision but they can easily be improved upon, according to the amount wratable to be spent.

For example the flushing arrangements will merely consist of a tank which would be kept filled by the shins: Thus tank would supply either a gallon or a gallon and a half castern of the usual type the vate from which can be released by the man in charge of the particular group of latrines when occusion demands. In all I have pleamed for So seats, and I think these would probably suffice

WATER SUPPLY

The question of water supply to the bazaar area will to a large extent have to remain quescent until the general water supply scheme for the whole of Abu is dealt with

DRAINAGE.

The question of surface dramage as far as the whole area is concerned is not one that creates much difficulty. The area is naturally self draund and it only remains to deal with the collection of surface water and its disposal by its natural outlet at the North East and of the Trenor Oval by means of subsidiary surface drains which T have arranged for m aligning my proposed roads

The plan No 824 will make it clear that so far as the main drain is concerned, which at present takes the form of an open and natural nulla running North East and South West through the open land to the North East of the Oval my recommendations include the con struction of a new surface drain which starts from the rear of Framps s Bakery continuing in a very nearly straight line due South West for 450 ft and then turns sharp to the South Last for a distance of 150 ft and again at this point turns South West ultimately going very nearly due South discharging in the blusti mills at a point almost adjoining the land at present used as Municipal grass stores. The advantages of this alignment will be apparent from the plan I at one tune thought of more or less utilizing the alignment of the existing nulla, but I am eatisfied that this will be a mistake and the proposed new alignment enables me to provide a convenient open space between the proposed new road C D E and the Post Office road It will be apparent from the plan that it would be very objectionable to have the backs of the houses on road C D E immediately underneath the Post Office road The result will now be that an open space will be provided for in front of the houses which could be planted with trees and could with advantage be used as a public garden I have not actually proposed in my scheme the utilization of the south eastern and north eastern frontage of the road C D E for building plots although this means the surrender of a certain amount of value from adjoining lands. Having a-regard to the altitude of the Post Office road, I think it is a desirable feature A subsidiary water drain is carried from a point adjoining house No 207 almost due south making use of the existing culvert at the northern corner of the Oval

These two main surface water drains will carry less than is normally carried by the present nulla due of course, to the construction of the new roads which will have the usual side drains which in turn will be connected up with the previously mentioned main drain. As an appendix to the Report I am attaching details (Plain No 849) of the proposals relating to the construction of these drains in the form of sections and cross sections.

The local dramage of the bazaar itself should I think, be dealt with by a central drain. This has some disadvantages from the point of view of road user, but nothing like the disadvantages side drains would have. The latter would not be practicable due to the erratical boundaries of the bazaar entisting many acute bends and turns. For this reason alone the side drains are out of question, apart from the fact that two will be necessary one on each side of the road instead of the one central drain now proposed. This point is one of consider able immortance as the road itself is a literady so very narrow.

From the plan referred to above showing sections and cross sections of danns it will be seen that generally the central drain will be covered and access would be given at suitable intervals by means of comparatively large manholes. There is no question of fall arising, as the bazzar has a natural fall from east to west. At present the surface drainage merely finds its own way over the stone parements of the burzar and kutcha roads, and thus ultimately gets into the nulla. The roads branching off the bazzar can efficiently be drained by the usual sade drains.

The plan will also indicate that the beforementioned central drain is proposed to be of 12 inches vertical depth of V° shape formation. It is possible that during the periods of the heaviest rainfall even thus may not suffice but the formation of the level of the road itself will naturally carry the surplies through its centre. The drum may either be, for preference, of stoneware throughout, if so, it should naturally be rounded at the base, or as a more economic construction by a half circular pipe at the base with cement sides, or failing these two methods, wholly of nest coment.

Acquisitions of properties incidental to the Development Scheme

The proposals as foreshadowed in the previous remarks together, with an inspection of the plans accompanying will reveal the fact that a certain number of properties will have to be sequired numbering in all 100 33 of these properties are held on pucca path; tenure, 47 on kutcha patha and 18 on Lok a tenure. I have prepared a statement (Appendix 4) which gives the details of the properties with an estimate

of their capital values and I have shown on plan No 800 as to how these tenures are distributed. The total compensation to be paid a respect of the properties held on piece path tenure is Rs 1500, blickly, patte Rs 18,000 and Lok's (for structures only assuming that new sided, are given to dispossessed on once? Rs 3,000.

LIND AVAILABLE FOR DEVELOPMENT AND DISPOSAL

The net result of the beforementanced acquisitions would be that a considerable area of land will be available for development and dapposal. Of this an area of 13 acres is required for roads and 28 acres or 1,00,000 s ft will be available for safe to the public after provision has been made for the following public requirements—

(a) Playground (b) Latrines (c) Cattle sheds for public and Municipality (d) Gardens, (c) Rehousing of Municipal sweepers, and (f) Municipal vegetable market

It should be remarked that, when making provisions for the Lob s with new sites, (admeasuring 10 000 s ft) in overy case the area which they have lost has been increased by a0 per cent when giving them now lands. This has been rendered necessary, due to the fact that their existing areas are so small that it would not be wise to allow rebuilding on such diminutive plots. In my calculations I have not ninde any provision for charging the Loke with additional sums for the extra land they have been given as it is a matter for the Municipality to decide hereafter. I estimate that the surplus land available for sale viz 1 00 000 s ft is to day worth somewhere in the neighbourhood of Rs 85,000 as against the net cost of works and acquisitions of properties Rs 92 700 These figures are set out in a greater detail in the finance statement Appendix No 6 I think I should add that in arriving at my return from the sale of lands. I have had practically no data on which to base my valuation, but I have assumed and all over rate of Rs 9 a yard I have reason to behave that this must be considered to be a reasonable figure having regard to the fact that the sites fronting the Oval are very choice and would probably fetch a very much higher figure

LAND TENURES IN THE BAPAAR

I have shown on plan No 650 how these tenures are distributed

 Pucca patta —I gather that all persons holding under this tenure are the owners of the fee simple possession of the properties concerned.

(2) Ratche patts — Persons holding under this tenure \(\bar{1}\) understand holding repretaal leave paying a rent (gro und rent) of \(\bar{1}\) E \(\beta\) per Sirolu \(\beta\) Bigha (65 yds) by 55 yds) and in the case of houses \(\bar{1}\) is 2 per house yearly. I have no definite information as to the terms of the leave sparst from paying the ground rent and I am therefore not in a position to state whether or no they would be entitled on this position, upon acquisition to receive more than the actual value of the superstructure. For \(\bar{1}\) may be that the lease provides that the Sirolu Darbar or their successors.

in title have the right to sequire these properties without compensation in respect of the laud. If this is not so, then naturally they would be entitled to the difference between the capitalized ground area and the value of the land in so far as the land is concerned and the correct way under these circumstances to value their interest would be to capitalize the net annual value of land and buildings and to deduct from this the capitalized value of the ground rent. It should be borne in mind in this connection that the annual value of land and buildings might especially when the buildings do not adequately develop the site merely, represent the annual value of the land alone. The ground rent might suitably be capitalized having a reference to the current rate of money at 6 per cent, or 16§ Y. P.

(3) Lok's tenure.-This is a tenure which is not easily describable by any concise legal definition but which has eventuated as a result of a gift to the Loks of certain lands to which they have an inallienable right of occupation free of any ground or other rent. I understand the position is that in years gone by, the Loks were agriculturists cultivating lands in the vienity, some of which now form the site of the Trever Oval. In course of time the agricultural parts of their holdings were required for various purposes and they were left with the lands actually held by them for residential purposes. I am given to understand that they have what may be said to be a 'Squatter's " title and so far as Government of India are concerned, Government have no right of ejection except by any powers which they possess for compulsory acquisition and compensation. If the ordinary Land and Revenue and Civil laws governing lands outside the Native States apply then the Loks from the acquisition of their properties would be entitled to practically the fee simple value of the land and buildings. It has been suggested to me in certain quarters that they would only be entitled to the value of the superstructure, but if this is so then Government possess certain rights of which I have no knowledge. I have discussed this matter somewhat fully because my proposals provide for the acquisition of some of these properties.

It must be borne in mind however, on the assumption that full corpensation will have to be paid, that my scheme provides for sitesing, given, to Luka who, are disposensed of ...eir existing, holdings, and it is conceivable and indeed highly probable that such persons would prefer to have a new site given them in the present area, and compensation for the existing structure, rather than full compensation for land and buildings and my proposels are based on this assumption.

WORKS TO BE EXECUTED UNDER THE SCHEME OTHER
THAN ROADS, DRAINS AND LATRINES, PREVIOUSLY
MENTIONED.

REHOUSING OF MUNICIPAL SWEEPERS.

This is a matter which should receive early attention, as at present housing conditions are, to put it mildly, not such as to be recommended. I have selected a site which is numbered on the plan 29 and 30. This has an area of 3,750 s ft, and provision could be made out for feat tenements. We cannot have an elaborate deepo, but I should think, with reasonable care, that such tenements could be eracted at the rate of ft. 600 per tenement.

MUNICIPAL CATTLE SHED

the present position does not fall in with the scheme arrangement and I have selected a new site as shewn on the plan "Plot No Si' It has an are of 4,446 s' It and there will be sufficient room to provide for 20 cattle instead of the existing accommodation for only I4. There is very little value on the existing shed and it is an eye sore to all users of the Post Office Road

GARDENS AND TREE PLANTING

An estimate has been made for an expenditure of Re 500 on the planting of trees along the road side and in the open space fronting surface water dramage channel. Nothing more is really done in the way of prepriation of a public garden, that is a matter which arisessubject to the funds being available

VEGETABLE MARKET

At present the vegetable and fruit sellers expose their goods for sale in odd places on the pavement of the main Bazzar which is a highly unsatisfactory arrangement. Plot No. 20 on plan admeasuring 0,200 s It would be found to be a convenient site for a small vegetable market.

MEAT MURKET

Proposals have been for a long time on foot to creet a more purch Ment Market in a more suitable locality. It appears from the office hies that the present Market is privately owned and that the ownership rests in a number of butchers who originally combined together is not necessary in this Report to discuss the individual ownerships I imagine that the original intention of the Municipality to construct a ney Meat Market was largely based on the fact that the existing Market is aituate in an insanitary environment rather than that the Market itself was insanitary or it may be that since the inception of the idea of the Market QUA Market has been suproved, for a very careful inspection does not permit of a ready condemnation of the Market on the ground that it is itself insanitary. On two or three visits at different hours of the day I have been particularly struck with the marked cleanly ness of all the stores and the fact that most of the meat which is exposed for sale was kept in fly proof cases. I am of opinion especially as land is not likely to be readily available for the construction of an

entirely new Meat Market elsewhere the best course to pursue would be to render as far as possible the neighbourhood of the Alarket more suntary and in this way to free it from the likelihood of contamination by flies It must not be thought that I am, for one moment, suggesting that the existing position of the Market is desirable for it is most certainly not but the facts have to be faced as they exist and I think that by drastic treatment of the area in the proximity a great deal could be done to remove the prevailing objection. I need hardly say that it is desirable that the sensi basement of the present Market should not be allowed to be used for residential purposes. It is at present occupied by butcher families and some terrints including a few shoe makers who have their stalls immediately coterminous with the exterior walls of the Market On a question of policy it is worth while to consider the effect that the erection of a new Ment Market would have on the existing owners of the present Market. It would be of no use building a new Ment Market if no butchers would be found who would occupy it. This will practically mean that the use of the existing Market would have to te prohibited. In equity the present or ners should be fully compensated for the loss of their Market if such regulation could be enforced imagine it could only be enforced on similary grounds and I think it would be extremely difficult to convince an impartial arbitrator that the present market is in an insanitary condition. However this may be there is no doubt that if any expense has to be incurred on improving the environments of the marl et and consequently the market that the owners of the present building might readily be expected to contribute towards the cost of such improvements. They might either do this by removing the tenants from the semi basement of the mariet and im proving it in such a way that no of jection on sanitary grounds would be taken to and by paying a certain lump sum to the Mumicipality towards the cost of acquiring adjoining properties or in such a way as might be mutually agreed upon. The owners of the Market must he fully aware of the Municipal proposals and would naturally be pre-pared to pay a reasonable contribution towards any improvement scheme which would allow them to retain the benefits of the present Market

BRIEF NOTES ON ABU WATER SUPPLY

KUDRA NALA SCHEME

Finances

Some entersm is necessary with regard to the calculation of annual mistalments as appearing in appendix V, on page 23 of Vol II, printed in 1921. A slight error has crept into this calculation and the annual equated cost of repayment of capital together with the interest on the totalanding amount from part to year would be Rs 8,004 and not Rs 7,810 assuming the rate of interest taken is 4 per cent. The calculation is a simple one and a reference to make 85 Table 5 of the

book of Valuation Tables (copy of which was supplied to the Horiba He Agent to the Governor General in Raputana under cover of report regarding the valuation of Alwar arte, No Abu 1, dated 11th June 1921) on the assumption that the lean is to be repeat within a period of 20 years gives a year of putches of 18 50 II total local in the above mentioned appendix is drivided by this year s purchase, the annual payment is at once twended.

This particular appendix was propared some years ago, and the unterest of 4 per can is now of course quite out of date and absold be microssed to 6 per cent. However, I notice that in appendix 3 revised on page 35 of Vol II, the merest on capital has been actually reduced to 35 per cent notwithstanding the fact that it accompanied a report dated 27th June 1920. It is hardly necessary to say that a loan could certainly not be raised as at tint date at anything less than 8 per cent.

I notice in this latter appendix that no promises has been made for repayment of capital I him is a serious omission and would make a difference on a 3½ per cent basis of Rs 7,700 approximately, life annual charge being very hearly Rs 15 500 against the Rs 7,700 state? The result would be that the total which is Rs 10,402 becomes Rs 18,600, and the result indicates the cost to the consumer at Rs 12 75 per 1,000 gallons, against practically II among calculated in the appendix, assuming we can borrow at 3½ per cent But if we take 6 per cent as the market pincs of money in 1950, the total annual charge for interest and repayment of capital spread over 20 years; Rs 19,000 in round figures or an increase of Rs 11,400 Adding the Rs 11,400 to the Rs 10,930 the total cost is Rs 23,530 or well over 100 per cent more than the estimate Is is thus apparent that the current estimated cost to the consumer is roughly Rs 1.8-9.

Coming now to the final rowsed estimate appendix 3 (revised) for a 50 feet dam, printled at page 40, a similar erries of missiculations appear. Firstly as regards the onusson of any provision for reapriment of capital and secondly as regards the gross underestimate as to the rate at which capital could be borrowed. Adopting 6 per cent for interest and repayment, the annual cost to the consumer would be Rs. 22,240 as against Rs. 8,020, an increase of Rs. 13,511. If this sadded to the total cost of Rs. 12,272 the latter figure is increased by over 100 per cent and the total cost to the consumer will thus be nearly Rs. 1-1-10 for 1,000 gallons.

It should be observed that the estimated capital cost of Rs 2 55,104 comits the cost of establishment, tools and plant of Rs 4,849, this latter sum should of course have been included. It has been included, I notice, under general abstract of expenses, Statement II on page 40

A further omission is the capital and annual costs incidental to provision and maintenance of the mains required to serve areas at the

tanment undereloped. It will only be by the development of these treas that the maximum consumption will be attained and deferred costs etc., should have been included

In my opinion the estimated consumption of 21 million gallons per annum is a reasonable estimate for future requirements but I do not anticipate on the evidence before me that this maximum will be reached for another 10 years and in estimating the cost to the consumer. I think it would be wise to assume 20 million gallons for certainly a mean period of 5 years. This would mean an increased cost per 1,000 gallons during the next 10 years. The only way to diminish this cost would be to construct the dam in the first instance to a height of 40 feet making full provision in the construction for the simple round of an ther 10 fe t when occasion required at I fully appreciate the reasons amen by the Superinten ling I nameer in his note dated 17th June 1920 for the manediate construction of the dim to a height of 50 feet, but I see no reason why the sarvice main of 5 inches should t of at once be provided. It is true that it is estimated the extra 10 feet of dam will only cost another Its \$8 000 But I think there can be no doubt that in another 10 years time, when the prices of money and material are easer, the net annual cost will show a saving over the present so t of immediate construction

While di cussing this question of finance, I think I need point out that no provision has been made for depreciation, on the other hand I am of opinion as a matter of police, as apart from finance, that it is destrable in the provision of the renewals fund, the charge should be graded. The question as to how we shill provide for parameter for things needed now which will harafter be needed in a greater measure, can only find an answer to some degree in a differentiation of the amortization charges in the way I have indicated

Graneat.

I am afrud I do not agree entirels with Mr. Keeling's note dated 7th March 1919. A run-off of 20 or 27 per cent would be reasonable in the sands plains around Ahmedalaid but in a rock catchinent area ruch as we have in contemplation. I have not the slightest doubt that I' to 70 per cent would be a marchable figure to work on, with a preference to the former figure.

Leabuge in all artificial reservoirs of the type in view must always be a doubtful factor, and time after time I have seen money wasted on the crection of expensive dams as the result of not making sufficient borings all over the site in order to test the porocity of the rub coil. Superficial observation is not rufficient, but I must say it at in the care of the rite under reference one a experience leads to the behelf from the formation of the rock that the leakage would be very shelf.

Again I am not in agreement with Mr. Leeling when he questions the solidarity of the "buttments. No more solid abstiments could be wished for than are to be found on this site and I am of quanto the an arched dam would be comently suitable and certainly more economic at all the oxisting excunsionates.

METHOD OF RECOVERING ANYUAL OUTLAT

The calculations have been very properly and necessarily based on the cost to the consumer of so much per 1 000 gallons but the method of actually collecting this sum appears to have been based cu assessment on augual rental value. Inasmuch as the calculations have been made on a certain consumption per head, it is questionable as to whether the principle of assessing on rental value is one which should be adopted or not From the principle however, it does not necessarily follow that the population would be distributed on the basis of annual value. This latter basis of assessment had its origin in the behel that ability to pay should form the criterion of assessment at is not necessary in a report of this description to enter into a discussion as to the ments or dements of the principles in c'ied and I am more concerned to suggest a method whereby the annual acturn expected could be secured. The obvious method of ensuring that the consumer adequately paid for the benefits would be to instal water meters in every house and provide for a minimum monthly ayment but thus would be practically ampossible in the bazaar area where I imagine there will be a certain source of supply in the form of stand pipes for many years to come

It might be possible however to combine the two methods, viz to notal metera in those properties where it was felt that the user was in accoss of the merges supply calculated and to assess in the case of other properties on the basis of annual value—even in these latter cases it might be necessary to fix a munium charge.

I apprehend that legalation would be necessary to enforce an assessment on all minimized properties. It is quite concervable that in not a four cases owners of properties would be content with the causing wells and would not be prepared togo to the additional expense of having a water supply laid on. No provision has been made in the estimates for such cases and it has been assumed that every resident on the hill will wall himself of the water-supply.

In conclusion I am strongly of opinion that the Kudra Nels Scheme, has been soundly conceived and is able to solve the problem of water-supply to Mount Abu Prim my previous remarks it would be gathered that in my opinion the cost to the consumer for the first 10 years of the scheme would be something more than Es 18-0 per 1000 gallons. But there is nothing to be alarmed ab in this by compansion with water-supply systems; in other places when it is remembered that the population is small and largely crowded into a few months in each year.

SUMMARY.

At the present moment the demand for building sites is the roverse of encouraging, but I think to some extent the Municipality is responsible for this state of offsirs. They have a magnificent hill station with a prest deal to commend it, but they have not sufficiently advertised their wares. Every unportant Bankay station morth of Bombay and south of Delhi rhould have an attractive poster on it retting forth the edvantages of Mount Abu as a holiday and health to ort, and advantage should be taken of the hundred and one different methods of advertising.

If the Electric Lighting Scheme, which is proposed at an estimated cost of two and a half lake- of rupees, and improved water-supply are provided the hill should become extremely popular.

If I may be permitted to remark on general finances, it is to the effect that in my opinion the Government of India should merely consider the capital received in the form of premium on the leaves of building sites as a capitalized ground rent, and should certainly relimped any claim they have to the premium received upon the execution of the leaves. If the Government of India desire to encourage the randary development of Aha, they should for some years to come cases to encoder it as a source of revenue and should be content merely to receive the amount that they have actually spent in payment to the Syndi Durkor. It will only be by a sympathetic consideration of a suggestion such as this, that the Municipality will have funds evailable to meet the interest and righting fund charges on capital necessary to carry out any of the improvements foreshadowed in this report.

A. E. MIRAMS.

Consulting Surreyor to the Government of Bombay.

Poona,

Lit March 1923



APPENDICES,

APPENDIX No. 1.

VALUATION OF BUILDING SITES.

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	Na.	Ds.			
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APPENDIX No 1-VALUATION OF BUILDING SITES-contd

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80	1 200	1,250	
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82	- 000	.00	

Poors,

A E MIRAMS, Consulting Surveyor to the Government of Bomboy

APPENDIX No. 2.

List of Building Sites available for depocal with a buef description of boundaries, are, locality, distance from Post Office and value.

APPENDIX No 2 Lief of Building sites available for dietosle.

			REMARKS			500 Site accessible only on ex lating 4 Aille Chakker	access provided under the		
		韓	Der Dero		å	_	11	1,000	
* Altitude of Aaspatana Club 3,930		Brief description of boundaries			Situated to the	b to Bounded on north, case of Alwar work by 4, Mile Chakker Road one part and part west by the northern Bounders of Alwar sate.	Strated to the cast of Blance Henre, Bornded on morth and east by boundary of mental ferred on south by the Blance Son the case cerned for south by the Blade from Blance House No. 9.	SO South of site No. 2. North by Dilance Rives Balon up to the year of society of footnath	on referred to los south by to piller Mo 11 gue of Cautoment limit and west by piller Mo 11 guth running den morth sawt by the fool-Cautomment limit, morth sawt. South by the
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1 0.2	000	022	400
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	<u>n</u>	22.23	3
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APPENDIX No 2 -LIST OF REIL

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List of	Autrosi	altring of Ga position		•	3,840			3,830		3.880	,
IX No 2-		Dy road from Fort Office		Miles	136		-	128		183	4
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APPENDIX NO 2 LIST OF BUILDING SITES AVAILABLE FOR DISPOSAL-confed	Red describion at domidacion	Site on the hill to the cast of Mr Cewages a tangalow On cast by the agreeding lands, in the bed of Nada', an oneth by	with the part of the case by a carred in them the rock and by a fine 10 was and part of the case of th	ing hone, and thus by a replacation beaut to the west up to the units. Destroac from west by mills are to the building 10. On west by mills are feet of this. Sank marily by a forth by the feet of this. Sank marily by a him running the neuthwest and coult, and the feet of the softs to the coult, mills on sortilasts. Then by the suits to the nulls, on sortilasts. Then by the suits as	for st the subvert to this Alia Childran, epithemy of Kumborwan, than by the foot of the hill [30] from work side of 1 Mile Children, work side of 1 Mile Children, [20] from read offs) said mile in Mile by nails. West by nails.
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3,860	3,850	018%	9,850	3,870
8	09-0	0.81	118	128
2 R C. Chapel	Golf Links	Kumharwana	Тотъя	Kala Chappra
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er er	Si	18	87	ន

APPENDIX No 2 -LIST OF BUILDI

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APPENDIX NO 2 - LIST OF BUILDING SITES AND

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ı	828	8	ਰੰ	18	85	Ħ	

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APPENDIX NO 2 -- Lier of Building sizes available for disposal--confd

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	REMARKS					
-confe	Rato Por fore	11s.	96	930	, 002	
ATTEMPT TO DISPOSAL CONFG	Beat description of homedarion	Side the was of Abn Righ School Read Notherst comer 700 centle of succession and 50 was for evel alogo. North by a last from tin conner day west. So has 100	High School Road (30) from eagon to hold for the continuous and the south and them was been been for the forth at a datase of 20 for 200 longth, than for each by a line form in the point of the continuous for 20 for 200 longth and the for 200 longth and the south as point due to the formal agreement and agreement about . Each by both an agreement bad. Each by Sulfar mills.	Belook jong (30° from cast edge) West by agracultural land of the first footpath fire on the function of the first footpath former on the Men High School Read and former continent of the hills. North by a	mest constant carro 180 value, the oreliar East grant, Panel 120 would lead, (50 from west edge). We have the constant carrows the Bit barwares by the foreign for the con- trol of the constant carrows the con- trol of the constant carrows the con- trol of the control of the con- trol of the con	. 1
	Approximate altitude of the position for building	3,830	3,770	3780	9888	,
	Distance by read from Fort Office	Miler I-66	1 65	16	188	
	Loenity	2:9 Abu High School	Disto	Date	Ditto	
Γ	Aros In Reros	23	\$	Ħ	g	6

2

\$

3

33

J	[No purce, access provided that fee the achemen as the moders the construction of a ceatty hodge over the Kudra naila,
	720	800	1 000	12
		Skio on the hall to the sauthwest of Kudm wall, bruge on Abe Lighs School front north by mile. East by Kudm nulls schi by Kudw nulls and west partly by Kudw mills and partly by footputh run- nung up-hill don northwestb.	Side on the ball due nearth of Abr High School and due of the Kapa mills Events and with the 40 y Monar, than Eve by called the 40 y Monar, than Abr High School spreads, and Schol by Abr High School spreads, and Schi by Abr High School spreads (30 from edge)	Site standard to the security of the New of the New and and and rolls remoting about the beautiful to the Site of the New and the Site of Site of the Site of
	3,780	3,310	8,835	3,850
	1-68	1.80	176	er.
•	Datto	Diffe	Ditto	Ditto
•	3,63	£	0.80	+
	2	89	20	2

Man No of The contract of the

			W. PH. CH	A MALLEY GE	MOUNT MAN	4
	REMARKS	Same remark as for No 65	***		access graves to pace. Screen gravited under the schong.	, K.
APPENDIX NO 2 LIST OF BUILDING SITES AVAILABLE FOR DISPOSAL conf.	Zata por sero,	3,000	22	1 9	3	_
	Brief description of conndenses	Site cotermans with No. 65 on its enthrest brounds on west by—kadra mills, 400 Thin due seek 2000 sectors, 10 No. 66	the sorth. On east by star or the chils to sorth. On east by star or 65. On south from the southeast corner of No. 10. It is notified threation 'is far as the cilfus Site externance with eastern boundary of No. 2.	Section 19 of another present the description of the property	Goldward mer and work by a half coming to goldward mer and so have been half to goldward with the goldward was so and the supply and the goldward was so and to make the coming to goldward with the following the supply and the goldward was from the gonger. Buthwest date of mer and from the gonger, Buthwest date of mer and goldward was a few the goldward was the supply and the gonger was the goldward was the supply and the goldward was the goldw	granul.
-Liter or	Approx. mate alithade of the peeidon for the baridon for the peeidon for the periods.	9,890	3,800	3,330		_
No S	Ductumes by rend from Post Office	Miles. 29.1	93	ę,		
APPENDI	Locality	3.4 Ahr High School Road,	Ditto	345 Abn High School		-
	Area In teres		41			
- 1	R. P.Z	8	45	8		

RI	PORT ON DEVELOPMENT	OF MOUNT VRO-	•	
60 Sumo Nematica significant out				
- Ego	478	1200	93	ا.
3,900 (8th oriennesswith No. 68 On morth by some of the second of the se	Sho on the Iche Rouse Dhenz, Brad, and to the method file. I should see that the grantfall of the grantfall	State to the northwest of Swanloy Lodge South by Land Hoses Shand (2) 18the nelsy Smithwest corner 800, due northwest geal Smithwest orthe value and the sand numbers of the value with nulle. North East by a helle, very several of the south for a localization of 300 feet, or hounting at a distance of 300 feet.	Sie on Anadra Road to the northway of Islan Blows (With by and his adjumple Islan House Road Rasit by footbath to ynumping well, Weeb Yakab Road House (by Fron read algo) up to mults curessing the South by Anadra road (60 from elgo)	
3,866	3 860	038'8	3 960	
S	0.68	0.83	890	_
Ditto	4 lo Grays Road	4.00 Loke House Read	Nakhi Lako	
å	3	6,00	8.0	_
8	2	r r	8	

APPENDIX No 2 -- List of Butiding sites available for disposal -- conid

1	1					
	Echaurs					
	Rato por acre	184.	000	008	800	000
The same of the sa	Bras description of boundaries		Side to the meritwook of Bost Club on Nakh Like, Nachley Good Light Clife. Bost by miles framme into the Mars made a bridge Booth by Andria Inod mar week by a filow remainer up Mal Case workweek from a pont 800 week of the mula crossing referred to	Cotemnus with 73 on its west boundary North by foot of claffs, South and part west by Aundra, rand and part west by footpath, going due acchieved popull, after	Side his treates some train have and side the between Roberts Spar and Amelin Gat North and sure by mile from Divol Gat West by fossed becauser, Film: West by fossed becauser, Film: No. 42 and 44, 110 due northeart of former and 130 the seathwest '8 dater form; part of former and 130 the seathwest '8 dater forth by footpalh to Roberts Spar (10)	From estup. North partly by footpath to 300 was of a number of control of the control of the southwest along utils maning down use options. Each by Under Glast malls and scath by foot of high ridge.
	Approxi mato altitrado of the position for bullding	•	3,8,0	3,850	3,710	3760
	Distract by read from Peat Office	Miles.	0.78	18-0	1-29	120
	Loshty		Nożn Lako	Ditto	Andra Road Roberts Spar	Drtto
Ì	Arra		-	7.	31	\$2 65 1
1	273		60	2	£	78

				1
008	8820	1,276	1,250	. 49
3,000 Site to the west of Nothir Jakes North by the high of soft of the two blast Chair. Back by a law off Two may parallel to the inter- red. South by the mile demining into the hire Jake by Insort beauty 100 unthrest and 200° northwest of piller No. 40.	9 flow a laberly Wolf, and to the contributed of Mahily the Bennaid on our part part of Mahil the Bennaid on our part part of the Mahil the Bennaid on the seatherst the Bennaid manning the seatherst	Site to the scatheret of the Iveng and on the Sanset Pent Read (scath side); north by rull, adjanny the municipal graders. East and scath by Surset Point Read; West by nulls.	Sit in the fork of the two Sunet Point Roads West boundary (curred) 200° cast of the courts of junction. Each by the Talay and aulis. North and nouth by Sunet Pain Road (10' from edge).	Site near the Samest Pent and on the junc- tion of Badya's Wall. North, east and earth by rulline. West by Badya's Wall. 30' from its cast, edge at the junction followed up in a regular line towards north.
3,990	3,970	028'6	3,936	3,970
	96-0	0.80	96-0	1
•		•	•	
5-9 Nakhi Jako	Ditte	Residency Lawns	Starset Point Road	Ditta
_	es es	ži.	18	9
15	28	R	8	ន

APPENDIX NO 2.—List of Butding sits atailable for disposal—concid

•	'	REPORT OF DEVELOP
	Венавия,	
TONGE IN	Roto Per ferro	Rs. 800
TO THE PROPERTY	Rief fascrytton of koundaries	2000 Side to the meth of Sames, Panel Real and Porter Real and Porter Real (Control of Control of C
	Approximate altitude of the position for the forether the	3 500
	Distance by read from Fost Office	Miles 137
	Locality	2 d6 Samet Pant Road
	Area	3.45
	owat	69

Nors—La addition to those rates greened reak at the rate of Re. 30 per sere yest amoun as assumed to be charged in each case of a work properture.

Consulting Surveyor to the Government of Bombay A E MIRAMS,

Ist March 1923

APPENDIX No. 8.

DEVELOPMENT OR BUILDING SITES.

Penancial Statement.

Credits.		Debita.	
Increment on plots resulting from development under the schome Capitalized ground and 20 rapes per names in rasped of 224 serus in perpetuity at b per cent.	Rs. \$6,400 \$9,600	Cest of construction of reads	Rs. 1,39,700
Total	. 1,26,000	Sundry improvements to two of the exacting reads 1,000	. 1,89,700

No account has been taken in the above statement on the crofit side for either increment or capitalized ground rent in respect of those plots which already have read access and are consequently not affected by the development proposals in this report. Equally no account has been taken in respect of those either to which no access has been provided or exists.

The total value of lands already having adequate access is Rs. 71,000 to which must be added the capitalized ground rent vis., Rs. 34,000, making a total of Rs. 1,05,000.

DE	inme:	y.			Ra.
Total value of all Building sites					2,80,000
Capitalized value of ground rent					1,50,000
			1	otal	4,30,000

POONA: A. E. MIRAMS,

Consulting Surveyor to the Government of Bombay,

APPENDIX No 4.

IMPROVEMENT OF BAZAAR AREA-

Valuation of properties to be acquired

Note -P -Paces poits

K.--Katcha patta. L.-Lok's tenure

House No.	Tenure	Coputal valu	REWARES.
		Rs.	
144 to 147	P	2,082	
143	ĸ	488	
149	P	265	1
141	ĸ	425	1
140	ĸ	471	1
189	P	345	
137	ĸ	354	
186	ĸ	858	İ
185 '	K	841	1
184	ĸ	842	
188	P	412	
132	ĸ	285	
131	P	400	
180	ĸ	540	
76	P	800	
77, 78	P	805	
160	ĸ	743	
169	ĸ .	322	
164	1	- 1	
165	- и	260	Value of structures only (delapidated)
166		1	

REPORT ON DEVELOPMENT OF MOUNT ABU.

APPENDIX NO 4-IMPROVEMENT OF BAZAAR AREA-contd

House No.	Tenure	Capital value	Remarks		
167	K	Rs 181			
168	P+K	{ 172 } 285 }			
169	P	280			
170	} K	850			
171	, - (
172	1				
173	} r }	900	Value of structures only.		
179)]				
174) .		***		
180	} L	400	Value of structures only		
206	1				
217	} L	200	Volue of structures only		
219]_				
221	۱ ا				
223 to	{ _	1,426			
227 and	K	1,425			
233)	i			
222	P	37 0]		
231	7				
232	P	1,225	[
234	}	Ì	{		
235 to	} P	627	}		
237	} *	1 021			
238] p	495]		
239) •		-		
181	} ĸ	870	İ		
182	ן ב	1			
183	P	435			

REPORT ON DEVELOPMENT OF MOUNT ABU.

APPENDIX No 4 — IMPROVEMENT OF BAZAAR AREA—confd

House No.	Tenure	Capital value	Remarks
185	ĸ	Rs 359	
187 188	} r	453	Value of structures only
191	5		1
193	11		
194	l} L	800	Value of structures only
195	11	1	- was or structures only
196	J	!	ĺ
189	K	102	
190	ĸ	276	
337	Khalası Lines	(, i	
236	R R	1,050	
385	IJ		
834	K	468	
888	P	460	
332	K	160	
381	ĸ	800	
347)	Ĺ	
848	} R	760	
349	,	1	
860	P	1,035	
351	P	730	
983	ĸ	654	
352	!		
353 854	P	1,465	
36,	_		
360	K P	62u	
200	P	373	

APPENDIX NO 4 - IMPROVEMENT OF BAZZAR AREA-concld.

House No	Tenure	Capital value,	Revares.
856	P	Rs. 170	
357	P	236	
858	ĸ	715	{
359	P	368	
363	P	353	
362	ĸ	405	
364	ĸ	450	}
366	K	820	
367	ĸ	805	
870	K	495	
368	ĸ	190	}
369	K -	555	
371	K	275	
381		-	
362	{ P	200	Pertion wall

Nots —These values are based on information as regards in and tenures, etc., supplied by the Municipal and Talesidar's office

Poona,	7	A. E ALIKANS,
1st March 1923	}	Consulting Surreyor to the Government of Bombay

APPENDIX No 5 IMPROVEMENT OF BAZAGE AREA

Areas of Final Plots

Plot No	Area	Remarks.
	8 ft	
1	5467	Frontage on Trever Oval.
2 3 4 5 8 7 8	7700	Ditto
3	7895	Ditto.
4	6458	2000
6	7782	i
. I	3376	
7	2400	Garden
8	3496	Frontage on Trevor Oval
10	3104	Ditto.
11	6534	Frontage on Bharritpur Read
12	9075 27621	I Ditto
19	4203	Playground.
14	4208 2352	ļ.
15	2452	17.1
15A	4161	Latrines (10 seats)
16	2102	Cattle shed (for public cattle).
17	3180	1
18	3247	1
19	9200	1
20 21 22 23 24 26 27 28 29 30	6207	Site for vegetable market
31	2777	
22	2396	İ
20	640	Latrines (v senfs)
95	7710	1 ' '
26	7024 3182	!
27	4500	1
28	3040	1
29	2550	la
80	1200	Site for rehousing municipal sweepers.
31	4446	
82	3830	Cattle shed (for Municipal cattle) Latrines (10 seats)
33	800	Intrines (D sents)
34	400	Ditto,
	106090	=3 acres 32 ganthas.

POONA, A E MIRAMS,

1st March 1928
Consulting Surreyor to the Government of Bonday

APPENDIX No. 6.

IMPROVEMENT OF BAZAAR AREA.

Penancial Statement.

Estimated return	Į.	Estimated cost of improvements		
	Rs.		Re	
Sale of surplus plots of building land at Re. 1 per sit, for 1,00,000 att deferred for a		Compensation for properties to be acquired	56,000	
mean period of 3 years at 6 per cent (assuming that it would take 5 or 6 years before the		Cost of roads .	28,180	
hlote are qualcored of	83,960 84,000	Diversion of nullus and con- struction of pucce drains	4,000	
		Municipal latrines	7,700	
		Rehousing the Municipal	6,030	
		Dismantling and reconstructing the Municipal cattle	10,100	
		Garden and tree planting .	600	
		Establishment charges on works at 10 per cent	5,153	
Total .	84,000	Total .	92,683	

Nat cost to the Municipality, Rs. 8,683, Say Rs. 9,000.

A. E MIRAMS,

POONA,

1st March 1928.

Consulting Surveyor to the Government of Bombav.

APPENDIX No. 7.

IMPROVEMENT OF BAZAGE AREA.

Estimates of Works.	
New Boads	
20' Roads, 2170' at Re. 2-8 per foot	
	50
	576
	780 8,780
Improving main Bazgar roads.	
Cost of improving and re-surfacing the main bazzar roads . 14.	14,400
Details-	, ,
Re. Removing existing flagging, 830' × 18' at Rs. 10 per 100 s ft.	
Re-surfacing with hitumenous concrete 3" thick on 6" lime concrete; 890 at Rs. 14 per foot	
Improvements to Branch Ronds and junctions . 1,260	
Total . 14,400	,
Diversion of nullas and construction of puece stone dra	ins.
1	Rs.
Main drain in Kludasi lines, 1000' at Re. 3-8	500
Sanegaen årrån 250° at Rs. 1-8	375
General levelling up	125
Total . 4	4,000
Latrines.	
Constructing 35 sents public latrines at Rs 220 per sent	700
Total 7.	7,700
Re-housing Municipal Sweepers.	Re.
Dismontling existing invanitary structure, Rs. 50	60
Rebuilding 10 topogrammed (10' x 10' ± 10' x 7' verendah)	000
	000

APPENDIX No. 7 .- IMPROVEMENT OF BAZSAR ARES-confd.

Municipal Cattle Shed.
Re.
Dismantling existing cattle shed Rs. 100 lump 100
Recomstructing cuttle shad to accommodate 20 cuttle, 2,600 s.ft. 10,000 10,100 10,100
Gardens and tree-planting.
Rs. Laying out a garden on the slopes of the main drain and plant-
ing palm trees at intervals of 20' Rs. 500 lump
. 500
Total . 51,550
Rs. Establishment charges on works at 10 per cent 6,153
5,159 5,159
Total estimated outlay on works . 50,083

A. E. MIRAMS,

POONA, Consulting Surveyor to the Government of Bombay.

1st March 1923.

DELITE NE CENT 1924

GOVERNMENT CENTRAL PRESS

